

Proposed Item for Biobased Designation

The following biobased product information has been collected to support item designation by USDA for the Federal Biobased Product Preferred Procurement Program (FB4P). This summary reflects data available as of July 26, 2006.

Title: Graffiti and Grease Removers

Description: Materials used to remove automotive, industrial, and kitchen soils and oils including greases, paints, and other coatings from hard surfaces including both painted and unpainted surfaces.

Manufacturers Identified: 27 manufacturers producing Graffiti and Grease Removers have been identified through internet searches, manufacturer's directories, trade associations, and company submissions.

Industry Associations Investigated: The following industry associations have been investigated for member companies producing Graffiti and Grease Removers:

- Masonry Magazine
- The Restaurant Association of Maryland
- Biobased Manufacturers Association
- United Soybean Board
- Solvents Industry Association
- American Solvents Council
- Association of the Wall and Ceiling Industry

Commercially Available Products Identified: Of the manufacturers identified, 43 Graffiti and Grease Removers are commercially available on the market.

Product Information Collected: Specific product information including company contact, intended use, biobased content, and performance characteristics have been collected on 13 Graffiti and Grease Removers.

Industry Performance Standards: Product information submitted by biobased manufacturers indicate that have typically been tested to the following industry standards:

- Graffiti Performance Testing
- Adhesive Testing in Screen-printing

Samples Tested for Biobased Content: 12 samples of Graffiti and Grease Removers have been submitted to independent laboratories for biobased content testing as specified by ASTM standard D6866-04.

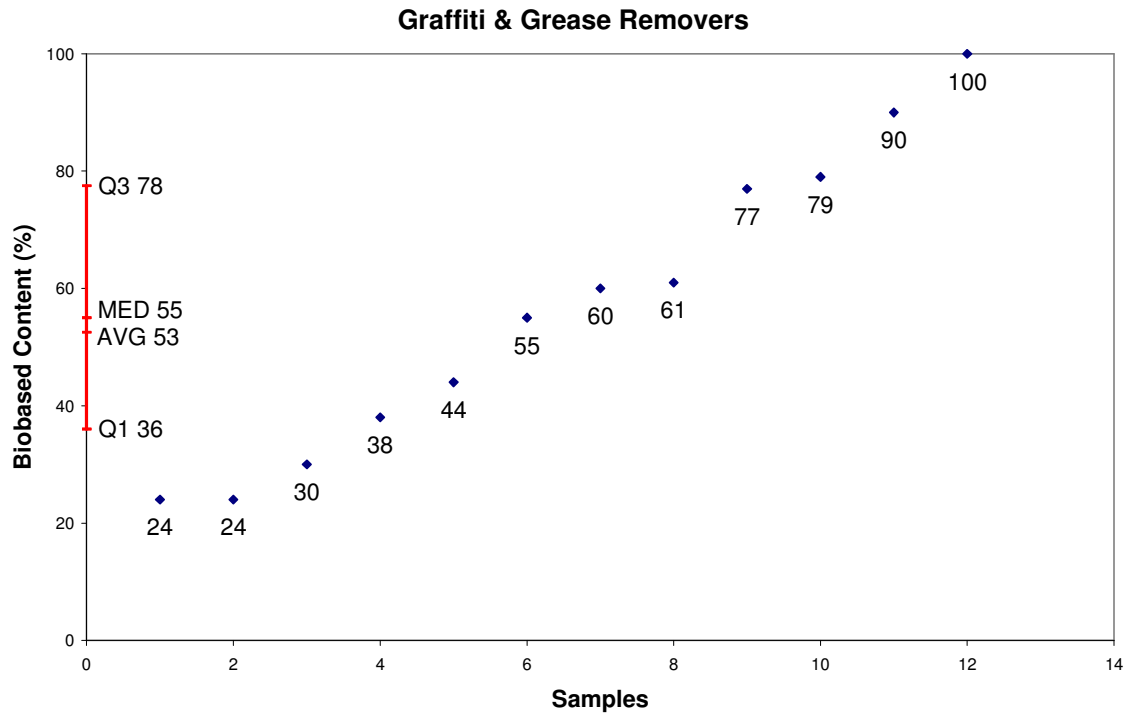
Biobased Content Data: Results from biobased content testing of Graffiti and Grease Removers indicate a range of content percentages from 24% minimum to 100% maximum biobased content

as defined by ASTM D 6866-04. A detailed distribution of biobased content levels is included as Appendix A.

Products Submitted for BEES Analysis: Life-cycle cost and environmental effect data for 2 Graffiti and Grease Removers have been submitted to NIST for BEES analysis.

BEES Analysis: The life-cycle costs of the submitted Graffiti and Grease Removers range from \$22.00 minimum to \$22.16 maximum per usage unit. The environmental scores range from 0.0446 minimum to 0.0646 maximum. A detailed summary of the BEES results is included as Appendix B.

Appendix A - Biobased Content Data

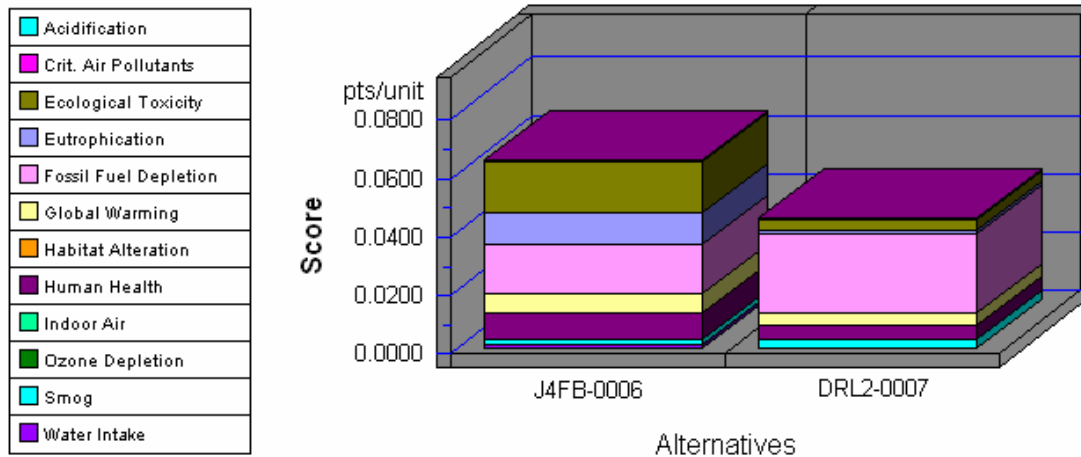


| | Manufacturers Identified | Products Identified | C14 | BEES |
|----|--------------------------|---------------------|-----|------|
| 1 | VF27 | VF27-0008 | 24 | |
| 2 | IS44 | IS44-0003 | 24 | |
| 3 | IS44 | IS44-0004 | 30 | |
| 4 | C9PX | C9PX-0007 | 38 | |
| 5 | TXH8 | TXH8-0013 | 44 | |
| 6 | Y8EG | Y8EG-0009 | 55 | |
| 7 | DRL2 | DRL2-0007 | 60 | yes |
| 8 | J3TP | J3TP-0029 | 61 | |
| 9 | WTV7 | WTV7-0001 | 77 | |
| 10 | TXH8 | TXH8-0012 | 79 | |
| 11 | J4FB | J4FB-0006 | 90 | yes |
| 12 | WAMQ | WAMQ-0008 | 100 | |

Appendix B - BEES Analysis Results

Functional Unit: One Gallon

Environmental Performance

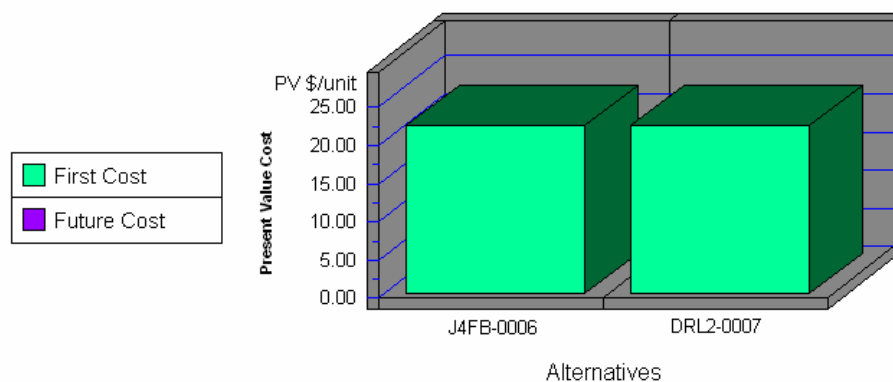


Note: Lower values are better

| Category | J4FB-0006 | DRL2-0007 |
|--------------------------|---------------|---------------|
| Acidification--5% | 0.0000 | 0.0000 |
| Crit. Air Pollutants--6% | 0.0007 | 0.0003 |
| Ecolog. Toxicity--11% | 0.0172 | 0.0039 |
| Eutrophication--5% | 0.0112 | 0.0012 |
| Fossil Fuel Depl.--5% | 0.0168 | 0.0268 |
| Global Warming--16% | 0.0064 | 0.0043 |
| Habitat Alteration--16% | 0.0000 | 0.0000 |
| Human Health--11% | 0.0089 | 0.0045 |
| Indoor Air--11% | 0.0000 | 0.0000 |
| Ozone Depletion--5% | 0.0000 | 0.0000 |
| Smog--6% | 0.0021 | 0.0032 |
| Water Intake--3% | 0.0013 | 0.0004 |
| Sum | 0.0646 | 0.0446 |

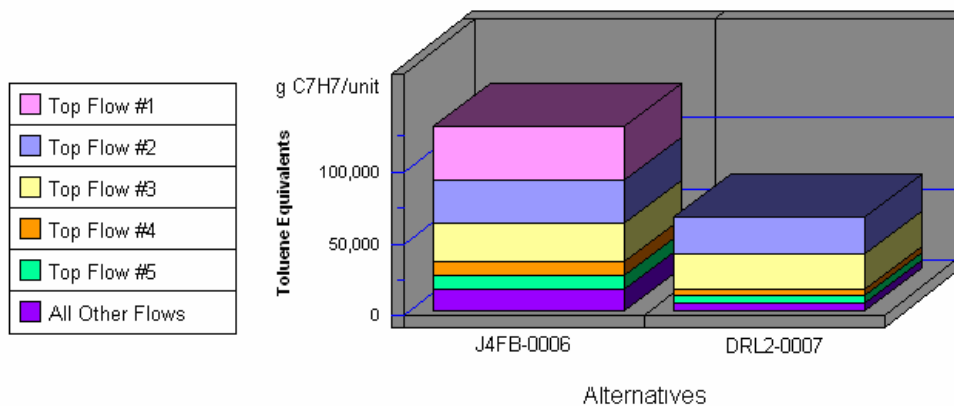
Appendix B (continued)

Economic Performance



*No significant/quantifiable performance or durability differences were identified among competing alternatives. Therefore, future costs were not calculated.

Human Health by Sorted Flows*



Note: Lower values are better

| Category | J4FB-0006 | DRL2-0007 |
|----------------------------------|-------------------|------------------|
| Cancer--(a) Atrazine (C8H14ClN5) | 37,769.00 | 0.00 |
| Cancer--(w) Arsenic (As3+, As5+) | 29,429.86 | 25,471.46 |
| Cancer--(w) Phenol (C6H5OH) | 26,940.48 | 23,893.64 |
| Cancer--(a) Arsenic (As) | 10,072.61 | 4,259.88 |
| Cancer--(a) Dioxins (unspecifie) | 9,113.65 | 5,169.51 |
| All Others | 15,585.16 | 6,272.70 |
| Sum | 128,910.77 | 65,067.18 |

*Sorted by five topmost flows for worst-scoring product